

**GOVERNMENT OF INDIA
PETROLEUM AND NATURAL GAS
LOK SABHA**

UNSTARRED QUESTION NO:589

ANSWERED ON:16.08.2007

STATE OF THE ART TECHNOLOGY FOR OIL AND GAS EXPLORATION

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Will the Minister of PETROLEUM AND NATURAL GAS be pleased to state:

- (a) the details of the state-of-the-art technology used during the last three years for the oil and natural gas exploration processes and the sectors in which it has been used;
- (b) the details of the progressive works done with the use of such state-of-the-art technology; and
- (c) the reaction of the Government to such progressive works done thereby?

Answer

MINISTER OF STATE IN THE MINISTRY OF PETROLEUM & NATURAL GAS (SHRI DINSHA PATEL)

(a)&(b):- The companies (private, public and joint venture) engaged in exploration of oil and gas in India are using some of the latest technologies which are as under:-

Q marine, Seabed Logging, GX Technology's India Span Campaign and Air borne Electro Magnetic survey (AEM).

3D high density, long offset survey, Multi transient electro magnetic (MTEM) Survey, Virtual drilling and PC cluster technology.

Over and Under technology.

New Geophysical tools like control source electromagnetic survey, magneto-telluric survey, Ocean bottom seismic survey.

The progressive work done with these State-of-the-art technologies are in terms of enhanced resolution and visualization of sub-surface features, computational power, handling of large amount and analysis of different component of data for more meaningful interpretation which have resulted in accelerated appraisal of acreages, exploration of subtle features, risk reduction and comparatively less drilling requirement.

(c) As a result of above, hydrocarbon discoveries have been made in deepwaters and unexplored basins. Also new discoveries are being made in matured basins. This has also resulted in exponential growth of knowledge base in different hydrocarbon domain.